

A Device for Air Cleaning From Dust and Aerosols

Abstract of Disclosure

A device for air cleaning from dust and aerosols based on the use of non-homogeneous electrostatic field creating a flow of charged particles (the so called "ionic wind") and operating as electrostatic precipitator is proposed. The device comprises a body 1 inside which corona-forming and precipitation electrodes with opposite polarities are established. Inside the body deflection electrodes are established as well, in front of corona-forming electrodes a reflector for positively charged aeroions effected as electrode and electrically coupled with said corona-forming electrodes being established. The proposed device comprises one or several tapes made of porous-fiber material placed into non-homogeneous electric field.

Figures